

Topics and questions proposed for discussion

General theme: Shale gas exploration & production, and environmental safety

Motivation: Learn from US experience with shale gas, extend communication between Czech and US authorities, scientists, and companies in respect to future energy sources and balance of profit with public acceptance.

1. Current status of shale gas legislation
 - 1a. Differences in legislation between US / Europe (Czech Republic)
 - 1b. Limitations of SG activities
 - 1c. Support from federal / state authorities
 - 1d. Outlook – expected future changes in US legislation / proposed changes in Czech legislation
2. Impact of SG on economy
 - 2a. Employment, prosperity (positives)
 - 2b. Energy prices
 - 2c. Competition with conventional gas production
 - 2d. Expected future trends, alternatives, sustainability
3. Environmental impacts of SG - Water
 - 3a. Gas and pollutants in surface water streams and lakes
 - 3b. Pollution of ground water, drinking water resources, water wells
 - 3c. Radioactive substances mobilization and migration
 - 3d. Old burdens vs. shale gas installations
 - 3e. Monitoring, safety
4. Hydraulic fracturing fluids
 - 4a. Ingrediance: risky and safe
 - 4b. Remmediation
5. Environmantal impacts – Air quality
 - 5a. Transport (heavy) esp. in densely populated areas
 - 5b. Greenhouse gas budget
 - 5c. Natural gas seapages vs. induced by fracking, gas surveys
 - 5d. Accidents, safety precautions
6. Envi – Seismicity
 - 6a. Natural vs. induced seismicity by fracking
 - 6b. Seismicity monitoring

- 7. Estimation of SG potential
 - 6a. Geological / structural aspects
 - 6b. Geochemistry
 - 6c. Thermal history
 - 6d. Methods of calculation

We wish and expect to discuss mentioned topics with various partners.

In case of interest we will be delighted to provide information about the situation with shale gas activities in the Czech Republic.

We look forward to meeting you soon and value your time devoted to our visit.

Best regards,

Vlastimila Dvorakova, geophysicist, President ER AAPG,
Phone: +420 543 429 253
Cell: +420 721 911 977
vlastimila.dvorakova@geology.cz

Juraj Francu, geochemist,
Phone: +420 543 429 248
Cell: +420 724 158 761
juraj.francu@geology.cz

both:
Czech Geological Survey,
Leitnerova 22, 65869 Brno, Czech Republic